JOB SHEET 2-4-36
RUNNING TWO USER FUNCTIONS (at the same time)

INTRODUCTION

Two User Functions may run at the same time. This is convenient when you need to dial out to another WSR-88D site but still need to display a four panel set of products via another User Function. This Job Sheet chains a dial out User Function to itself and executes another User Function to display four different elevation slices of the Base Reflectivity product.

Note the active User Functions display in the upper left corner the Alphanumeric Terminal. The display is " **UF##**" where ## is the User Function number.

On final point to remember, anytime you cancel a User Function, either at the Graphic Tablet or at the Applications Terminal, all User Functions currently running are canceled.

OBJECTIVE

Edit, invoke, and cancel two User Functions at the same time.

REFERENCES

NWS EHB 6-531-1, USERS GUIDE: PUP/RPGOP, Section 11.0

PROCEDURE

Editing User Function 31

1.   From the Main Menu, type **U** and press **RETURN**.

 -      The User Function Menu is displayed.

2.   Type **EXA,31** and press **RETURN**.

 -      User Function **31** is displayed.

1

```
                                    MAIN MENU

        COMMAND:  U,
        FEEDBACK:

        Enter command and press return.  For assistance, press the HELP button (F5).

        (C)ONTROL
        (S)TATUS
        (D)ISPLAY
        (R)OUTINE PRODUCT SET
        (G)EN AND DISTRIBUTE PRODUCTS
        (T)IME LAPSE
        (A)RCHIVE
        (U)SER FUNCTION
        (AD)APTATION DATA
        (M)ONITOR PERFORMANCE
        (H)ELP


        UNACKNOWLEDGED ALERTS                  ALPHA PRODUCT QUEUE INDICATOR
        ACKNOWLEDGED ALERTS                    RPG PRODUCT REQUEST STATUS
        SYSTEM STATUS
```

2

```
                               USER FUNCTION MENU

        COMMAND:  U,EXA,31
        FEEDBACK:

        Enter command.

        (E)XECUTE, <UF#>, <rpg>
        (C)ANCEL EXECUTION
        (D)EFINE, <UF#>, <title>
        (EN)D DEFINE AND EXAMINE *,        (E)ND UF
                                           <UF#>,  [User function # to receive control]
        (W)AIT, <SECONDS>
        (EXA)MINE,      (T)ITLES
                        <UF#> *  [Examine and edit]


           *Note: Edit commands are available when the User Function Examine screen is
                        displayed.
```

3.   Type **I,2** and press **RETURN**.

-       The Feedback line reads, "**Select New Command or Function to Insert After 2**."

4.   Type **W,360** and press **RETURN**.

-       This command invokes a wait of 360 seconds (6 minutes) to the User Function.

5.   Type **R,31** and press **RETURN**.

-       This (R)eplaces the (E)nd command with a command to recall User Function 31.   This command in essence, chains User Function 31 to itself in an endless loop.

6.   Your User Function, with the latest edits, should look like this.

-       This User Function dials out to another WSR-88D and requests a Base Reflectivity and a Base Velocity product. The User Function then waits six minutes and requests these products again. This is an excellent method of receiving products from another radar without having to manually restart this User Function each time you want to make a request.

EXAMINE/EDIT USER FUNCTION 31: RPG_REQ_REF_VEL_0.5

COMMAND: **U,I,2**
FEEDBACK:

3

EDIT CMDS: [EACH EDIT CMD MUST BE PRECEDED BY '(U)SER FUNCTION',]
                (DEL)ETE,<LINE#>   (R)EPLACE END, [(E)ND OR <UF#>]
                (I)NSERT,<LINE#>   (REN)AME UF TITLE,<NEW TITLE>

1.   D,G,R   L
2.   D,G,V   L
3.   U,EN,E

EXAMINE/EDIT USER FUNCTION 31: RPG_REQ_REF_VEL_0.5

COMMAND: **U,W,360**
FEEDBACK:

4

EDIT CMDS: [EACH EDIT CMD MUST BE PRECEDED BY '(U)SER FUNCTION',]
                (DEL)ETE,<LINE#>   (R)EPLACE END, [(E)ND OR <UF#>]
                (I)NSERT,<LINE#>   (REN)AME UF TITLE,<NEW TITLE>

1.   D,G,R   L
2.   D,G,V   L
3.   U,EN,E

EXAMINE/EDIT USER FUNCTION 31: RPG_REQ_REF_VEL_0.5

COMMAND: **U,R,31**
FEEDBACK:

5

EDIT CMDS: [EACH EDIT CMD MUST BE PRECEDED BY '(U)SER FUNCTION',]
                (DEL)ETE,<LINE#>   **(R)EPLACE END, [(E)ND OR <UF#>]**
                (I)NSERT,<LINE#>   (REN)AME UF TITLE,<NEW TITLE>

1.   D,G,R   L
2.   D,G,V   L
3.   U,W,360
4.   U,EN,E

EXAMINE/EDIT USER FUNCTION 31: RPG_REQ_REF_VEL_0.5

COMMAND: U,
FEEDBACK: **UF31 DEFINITION COMPLETE**

6

EDIT CMDS: [EACH EDIT CMD MUST BE PRECEDED BY '(U)SER FUNCTION',]
                (DEL)ETE,<LINE#>   (R)EPLACE END, [(E)ND OR <UF#>]
                (I)NSERT,<LINE#>   (REN)AME UF TITLE,<NEW TITLE>

1.   D,G,R   L
2.   D,G,V   L
3.   U,W,360
4.   U,EN,31

Executing Two User Functions at the same time

7.   At the Main Menu of the Applications Terminal, type **U** and press **RETURN**.

-      The User Function Menu displays.

8.   Type **E,31,<rpg>** and press **RETURN**.

-      **Ask your instructor which WSR-88D you are allowed to dial-in to.**

-      Notice that as soon as the User Function is invoked, "**UF31**" displays in the upper left corner of the Applications Terminal. This tells you that User Function 31 is running.

-      Note that this User Function has been modified, from JS2-4-35, to continually run. Every six minutes the User Function dials out to the RPG selected and requests a Base Reflectivity and a Base Velocity product. This is a quick and easy method of dialing into another site for products.

-      Remember that the dial out queue can only hold up to 40 products. If the number of requests exceed the queue limit of 40 you will get a message "REQUEST VOID" on the feedback line and the rest of the requests are thrown away.

7

MAIN MENU

COMMAND: **U**
FEEDBACK:

Enter command and press return. For assistance, press the HELP button (F5).

(C)ONTROL
(S)TATUS
(D)ISPLAY
(R)OUTINE PRODUCT SET
(G)EN AND DISTRIBUTE PRODUCTS
(T)IME LAPSE
(A)RCHIVE
(U)SER FUNCTION
(AD)APTATION DATA
(M)ONITOR PERFORMANCE
(H)ELP

UNACKNOWLEDGED ALERTS   ALPHA PRODUCT QUEUE INDICATOR
ACKNOWLEDGED ALERTS   RPG PRODUCT REQUEST STATUS
SYSTEM STATUS

8

USER FUNCTION MENU

COMMAND: U,**E,31,KRPG**
FEEDBACK:

Enter command.

(E)XECUTE, <UF#>, <rpg>
(C)ANCEL EXECUTION
(D)EFINE, <UF#>, <title>
(EN)D DEFINE AND EXAMINE *,   (E)ND UF
                                                      <UF#>, **[**User function # to receive contro**l]**
(W)AIT, <SECONDS>
(EXA)MINE,   (T)ITLES
                          <UF#> * [Examine and edit]

   *Note: Edit commands are available when the User Function Examine screen is
                    displayed.

9.   At the Graphic Tablet select **UF4** (either button).

-       User Function 4 is executed. Note that "UF4" displays in the upper left corner, next to UF31. Both User Functions are now running.

10.   At the Graphic Tablet select CANCEL UF.

-       This command cancels the execution of all User Functions currently running.

-       Notice the feedback line indicates that the User Functions are canceled. Note that the upper left corner of the Applications Terminal is not displaying any active User Functions.

-       Any time you cancel a User Function, either by selecting **Cancel UF** at the Graphics Tablet or typing **U,C** at the Applications Terminal, all currently running User Functions are canceled.

END

GRAPHIC TABLET

KEYBOARD · **SYMBOLS** · **USER FUNCTIONS**

EDIT COMMANDS / KEYBOARD / SYMBOLS / USER FUNCTIONS (top grid)

EDIT COMMANDS		Keyboard													Symbols						User Functions				
EDIT ANNOT	EDIT ALERT AREA	DELETE ALERT BOX	ADD ALERT BOX	DEL RCTL	ADD RCTL	EDIT RCM PART A		EDIT RCM PART C		57 / 25	58 / 26				59 / 27	60 / 28	61 / 29	62 / 30	63 / 31	64 / 32	26	27	28	29	30
EDIT MAP	HIGH DETAIL	! 1	@ 2	# 3	$ 4	% 5	^ 6	& 7	* 8	(9	) 0	+ =	BACK SPACE		51 / 19	52 / 20	53 / 21	54 / 22	55 / 23	56 / 24	21	22	23	24	25
START ERASE	END ERASE	Q	W	E	R	T	Y	U	I	O	P	– _	RET		45 / 13	46 / 14	47 / 15	48 / 16	49 / 17	50 / 18	16	17	18	19	20
START LINE	END LINE	A	S	D	F	G	H	J	K	L	: ;	" '	UPPER SHIFT		39 / 7	40 / 8	41 / 9	42 / 10	43 / 11	44 / 12	11	12	13	14	15
CANCEL EDIT	EXIT EDIT & SAVE	Z	X	C	V	B	N	M	< ,	> .	? /	SPACE	LOWER SHIFT		33 / 1	34 / 2	35 / 3	36 / 4	37 / 5	38 / 6	6	7	8	9	10

User Functions bottom row: 1 | 2 | 3 | 4 | 5 (callouts **9** and **10** point to this area)

PARAMETERS (left column)

- AZRAN SELECT
- CROSS SECTION SELECT
- RPG
- TIME
- DATE
- REPEAT COUNT
- END HOUR
- SLICE/ DURATION
- CENTER AZIMUTH
- CENTER RANGE
- STORM DIRECTION
- STORM SPEED
- CONTOUR INTERVAL
- ALL/ONE SWA
- MATCH PARA- METERS
- DEFAULT PARA- METERS

DISPLAY FUNCTIONS (right grid)

CANCEL OF	SPEED DOWN	SPEED UP	FRAME BACK	FRAME FORWARD
TIME LAPSE RES/HLT	TIME LAPSE 1	TIME LAPSE 2	TIME LAPSE 3	CONTINUOUS LOOP
AUTO RES/HLT	QUAD 1	QUAD 2	RECENTER MAG 1X	RECENTER MAG 2X
FULL SCREEN	QUAD 3	QUAD 4	RECENTER MAG 4X	RECENTER MAG 8X
CLEAR SCREEN/ QUAD	FILTER	COMBINE DOWN	COMBINE UP	CURSOR HOME DEFINE
BLINK COLOR LEVEL	RESTORE DISPLAYED PRODUCT	GRAY/COLOR SCALE	CURSOR AUTO/ MANUAL	CURSOR LINK/UNLINK
ALL QUADRANTS	HARD COPY	PRESET CENTER	CURSOR HOME	AZRAN R/ LAT LON/ AZRAN H

PRODUCT OVERLAYS (right grid, lower)

ACK ALERT	CELL TRENDS	VR/SHEAR DISPLAY	CURRENT CROSS SECTION CR	ANNOT'S AN
HAIL HI	MESO M	TVS TV	STORM TRACK ST	ATTRIBUTE AT
ALERT AREA 1 A1	ALERT AREA 2 A2	SWP SW		COMBINED SHEAR CONTOUR SC
OVERLAYS OFF/ON	OVERLAYS ERASE	MAP OVERLAY DELETE	STOP BLINK	PAGE ATTRIBUTE

PARAMETERS (bottom-left grid)

ELEVATION UP	LOW PRIORITY	DISPLAY PRODUCT
ELEVATION DOWN	REQUEST MAPS	
LOWEST ELEVATION	BLANK TIME DATE	SEND RPG REQ
DED ASSOC RPG	.13 NM	8 LEVEL
DIAL-UP ASSOC RPG	.27 NM	16 LEVEL
RPG 1	.54 NM	HIGH ALT
RPG 2	1.1 NM	MID ALT
RPG 3	2.2 NM	LOW ALT

PRODUCTS and BACKGROUND MAPS (bottom grid)

BASE REF R	COMP REF CR	COMP REF CONTOUR CRC	ECHO TOPS COUNTOUR ETC	REF CROSS SECTION RCS	ACK PRODUCT	DISPLAY QUEUED PRODUCT	PRODUCT OFF/ON	MAPS OFF/ON	MAPS ERASE	MAPS FOREGD/ BACKGD	CANCEL HELP
BASE VEL V	STM REL VEL REGION SRR	STM REL VEL MAP SRM	ECHO TOPS ET	VEL CROSS SECTION VCS	PRODUCT BACK	PRODUCT FORWARD	TRANSFER SCREEN PRODUCT	STATE LAT/LON ST	COUNTY CO	HIGHWAY HY	RADAR SITES RS
BASE SPECTRUM WIDTH SW	COMBINED SHEAR CS	COMBINED SHEAR CONTOUR CSC	COMBINED MOMENT CM	SPECTRUM WIDTH CROSS SECTION SCS	NEXRAD UNIT STATUS	CLEAR QUEUE	REDISPLAY LAST PRODUCT	RIVER RV	RIVER BASIN RB	RDA	RANGE RING
ONE HOUR PRECIP OHP	THREE HOUR PRECIP THP	STORM TOTAL PRECIP STP	USER SELECTABLE PRECIP USP	STORM TRACK STI	TORNADO VORTEX SIGNATURE TVS	RADAR CODED MESSAGE RCM	ALL SWA PRODUCTS	WARNING AREA WA	MIL OPN AREA MO	POLAR GRID	LFM GRID LF
MESO M	SEVERE WEATHER PROBABILITY SWP	WEAK ECHO REGION WER	VERTICALLY INTEGRATED LIQUID VIL	VELOCITY AZIMUTH DISPLAY VAD	HAIL HI	SWA REF SWR	SWA VEL/SRR SWV/SWR	RSTRCTD AREA RA	PRHBTD AREA PA	AIRWAY HIGH AH	CITY CI
LAYER COMP REF MAX LRM	LAYER COMP TURB MAX LTM	LAYER COMP REF AVG LRA	LAYER COMP TURB AVG LTA	VAD WIND PROFILE VWP		SWA SPECTRUM WIDTH SWW	SWA SHEAR SWS	NAVAID NA	AIRPORT AP	AIRWAY LOW AL	COUNTY NAMES CN

Bottom labels: **PARAMETERS** · **PRODUCTS** · **BACKGROUND MAPS**

Side labels: EDIT COMMANDS · PARAMETERS · DISPLAY FUNCTIONS · PRODUCT OVERLAYS